

ABSTRACTMETHOD AND APPARATUS FOR SYNCHRONISATION

The present invention provides a method and a device in which two or more fingers of a RAKE receiver can be locked to a multipath received signal in a situation of fat finger impulse response. One embodiment of the present invention assigns two RAKE fingers to an impulse response so that one finger is tracking the impulse response with Early-Ontime DLL method and the other finger is tracking the impulse response with Ontime-Late DLL method. The method comprises detecting the delay between the received signal and its delayed version, comparing the delay with a pre-determined threshold and in the case when the delay falls below the threshold, changing the tracking method of the delayed version of the received signal to a second tracking method.

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Figure 3

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